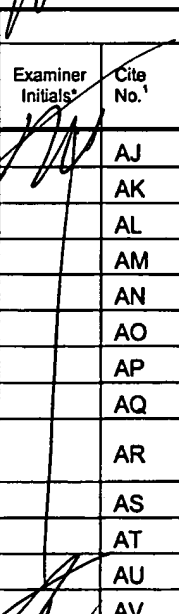


PTO/SB/08A&amp;B (08-03)

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/799,432
		Filing Date	March 12, 2004
		First Named Inventor	CHISHTI, MUHAMMAD
		Art Unit	3732
		Examiner Name	Manahan, Todd E.
Sheet 1	of 8	Attorney Docket Number	018563-000550US

U.S. PATENT DOCUMENTS+					
Examiner Initials	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-3,407,500	10-29-1968	Kesling	
	AB	US-4,526,540	07-02-1985	Dellinger	
	AC	US-4,591,341	05-27-1986	Andrews	
	AD	US-4,983,334	01-08-1991	Adell	
	AE	US-5,328,362	07-12-1994	Watson et al.	
	AF	US-6,183,248	02-06-2001	Chishti et al.	
	AG	US-6,482,298	11-19-2002	Bhatnagar	
	AH	US-6,572,372	06-03-2003	Phan et al.	
	AI	US-2003/0224311	12-04-2003	Cronauer	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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	AL	EP	0376873		07-04-1990	Shafir		<input type="checkbox"/>
	AM	EP	0490848		06-17-1992	Nobelpharma AB.		<input type="checkbox"/>
	AN	EP	0774933		05-28-1997	Sandvik AB		<input type="checkbox"/>
	AO	EP	0731673		09-18-1996	Nobel Biocare AB		<input type="checkbox"/>
	AP	FR	2369828		06-02-1978	Hito Suyehiro		<input type="checkbox"/>
	AQ	FR	2652256		03-29-1991	Jourda		<input type="checkbox"/>
	AR	PCT	WO 90/08512		08-09-1990	Dolphin Imaging System		
	AS	PCT	WO 91/04713		04-18-1991	Jourda et al.		
	AT	PCT	WO 94/10935		05-26-1994	Ormco Corp		
	AU	PCT	WO 98/44865		10-15-1998	Nobel Biocare AB		
	AV	PCT	WO 98/58596		12-30-1998	Align Technology Inc		

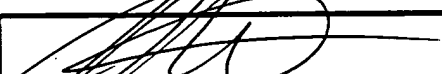
Examiner Signature	Date Considered
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Sheet	2	of	8	Attorney Docket Number	018563-000550US

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	AW	English translation of Japanese Laid-Open Publication No. 63-11148 to inventor T. Ozukuri (Laid-Open on January 18, 1988) pp. 1-7.	
	AX	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.	
	AY	ALEXANDER <i>et al.</i> , "The DigiGraph Work Station Part 2, Clinical Management," JCO, (July 1990), pp. 402-407.	
	AZ	ALTSCHULER <i>et al.</i> , "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," IADR Abstracts, Program and Abstracts of Papers, 57th General Session, IADR Annual Session, March 29, 1979 - April 1, 1979, New Orleans Marriot, J. Dent. Res., Vol. 58, (January 1979), Special Issue A, p. 221.	
	BA	ALTSCHULER <i>et al.</i> , "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," Optical Engineering, Vol. 20, No. 6, (1981), pp. 953-961.	
	BB	ALTSCHULER <i>et al.</i> , "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," SPIE Imaging Applications for Automated Industrial Inspection and Assembly, Vol. 182, (1979), pp. 187-191.	
	BC	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607, (1980), 2 pages total.	
	BD	AMERICAN ASSOCIATION FOR DENTAL RESEARCH, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	
	BE	ANDERSSON <i>et al.</i> , "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," Acta Odontol. Scand., Vol. 47, (1989), pp. 279-286.	
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	BG	BAUMRIND <i>et al.</i> , "Mapping the Skull in 3-D," Reprinted from J. Calif. Dent. Assoc., Vol. 48, No. 2, (1972 Fall Issue), 11 pages total.	
	BH	BAUMRIND, "Integrated Three-Dimensional Craniofacial Mapping: Background, Principles, and Perspectives," Semin. Orthod., 7(4):223-232 (Dec. 2001).	
	BI	BAUMRIND, "A System for Craniofacial Mapping Through the Integration of Data from Stereo X-Ray Films and Stereo Photographs," an invited paper submitted to the 1975 American Society of Photogram. Symposium on Close-Range Photogram. Systems, University of Ill., Aug. 26-30, 1975, pp.142-166.	
	BJ	BEGOLE <i>et al.</i> , "A Computer System for the Analysis of Dental Casts," Angle Orthod., 51(3):253-259 (July 1981).	

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	BK	BERNARD <i>et al.</i> , "Computerized Diagnosis in Orthodontics for Epidemiological Studies: A Progress Report," Paper presented at International Association for Dental Research 66th General Session, March 9-13, 1988, Montreal, Canada. The abstract is published in <i>J Dental Res. Special Issue</i> , 67:169.	
	BL	BHATIA <i>et al.</i> , "A Computer-Aided Design for Orthognathic Surgery," <i>Br. J. Oral Maxillofac Surg.</i> , Vol. 22, (1984), pp. 237-253.	
	BM	BIGGERSTAFF <i>et al.</i> , "Computerized Analysis of Occlusion in the Postcanine Dentition," <i>Am. J. Orthod.</i> , Vol. 61, No. 3, (Mar. 1972), pp. 245-254.	
	BN	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>Angle Orthod.</i> , Vol. 40, No. 1, (Jan. 1970), pp. 28-36.	
	BO	BRANDESTINI <i>et al.</i> , "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <i>J. Dent. Res.</i> , Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts, (1985), p. 208.	
	BP	BROOK <i>et al.</i> , "An Image Analysis System for the Determination of Tooth Dimensions from Study Casts: Comparison with Manual Measurements of Mesio-distal Diameter," <i>J. Dent. Res.</i> , Vol. 65, No. 3, (March 1986), pp. 428-431.	
	BQ	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Part 1)," <i>J. Clin. Orthod.</i> , 13(7):442-53 (Jul 1979).	
	BR	BURSTONE (interview), "Dr. Charles J. Burstone on The Uses of the Computer in Orthodontic Practice (Part 2)," <i>J. Clin. Orthod.</i> , 13(8):539-51 (Aug. 1979).	
	BS	BURSTONE <i>et al.</i> , "Precision Adjustment of the Transpalatal Lingual Arch: Computer Arch Form Predetermination," <i>Am. J. Orthod.</i> , Vol. 79, No. 2 (Feb. 1981), pp. 115-133.	
	BT	CHACONAS <i>et al.</i> , "The DigiGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> , (June 1990), pp. 360-367.	
	BU	CHAFETZ <i>et al.</i> , "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clin. Orthop. Relat. Res.</i> , No. 201, (December 1985), pp. 60-67.	
	BV	CHIAPPONE, "Constructing the Gnathologic Setup and Positioner," <i>J. Clin. Orthod.</i> , Vol. 14, pp. 121-133 (1980).	
	BW	COTTINGHAM, "Gnathologic Clear Plastic Positioner," <i>Am. J. Orthod.</i> , Vol. 55, pp. 23-31 (Jan. 1969).	
	BX	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>J. Can. Dent Assoc.</i> , Vol. 57, No. 2, (Feb. 1991), pp. 121-123.	
	BY	CRAWFORD, "Computers in Dentistry: Part 1 - CAD/CAM: The Computer Moves Chairside; Part 2 - Computers in dentistry. Part two. Francois Duret—a man with vision; Part 3 - The computer gives new vision—literally; Part 4 - Bytes 'N Bites: The Computer Moves From The Front Desk To The Operator," <i>J. Can. Dent. Assoc.</i> , (Sept. 1988), 54(9):661-666.	

Examiner Signature	Date Considered	1-11-86
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\* EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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				Art Unit	3732
				Examiner Name	Manahan, Todd E.
Sheet	4	of	8	Attorney Docket Number	018563-000550US

NON PATENT LITERATURE DOCUMENTS			
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	BZ	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990), pp. 14-17.	
	CA	CURETON, "Correcting Malaligned Mandibular Incisors with Removable Retainers," <i>J. Clin. Orthod.</i> , Vol. 30, No. 7, (1996), pp. 390-395.	
	CB	CURRY <i>et al.</i> , "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Semin. Orthod.</i> , Vol. 7, No. 4, (Dec 2001), pp. 258-265.	
	CC	CUTTING <i>et al.</i> , "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plast. Reconstr. Surg.</i> , Vol. 77, No. 6, (June 1986), pp. 877-885.	
	CD	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges," DSC Production AG, (Jan. 1992), pp. 1-7.	
	CE	DEFRANCO <i>et al.</i> , "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomech.</i> , Vol. 9, (1976), pp. 793-801.	
	CF	DENTAL INSTITUTE UNIVERSITY OF ZURICH SWITZERLAND, "Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method," (May 1991), 2 pages total.	
	CG	DENTRAC CORPORATION, Dentrac document, pp. 4-13.	
	CH	DURET <i>et al.</i> , "CAD/CAM Imaging in Dentistry," <i>Curr. Opin. Dent.</i> , Vol. 1, (1991), pp. 150-154.	
	CI	DURET <i>et al.</i> , "CAD-CAM in Dentistry," <i>J. Am. Dental Assoc.</i> , Vol. 117, (Nov. 1988), pp. 715-720.	
	CJ	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hennson International Product Brochure</i> , (Jan. 1986), 18 pages total.	
	CK	DURET, "Vers Une Prothese Informatisee," (English translation also attached), <i>Tonus</i> , Vol. 75, (Nov. 15, 1985), pp. 55-57.	
	CL	ECONOMIDES, "The Microcomputer in the Orthodontic Office," <i>JCO</i> , (Nov. 1979), pp. 767-772.	
	CM	ELSASSER, "Some Observations on the History and Uses of the Kesling Positioner," <i>Am. J. Orthod.</i> , (1950), 36:368-374.	
	CN	FABER <i>et al.</i> , "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1, (Jan. 1978), pp. 3646.	
	CO	FELTON <i>et al.</i> , "A Computerized Analysis of the Shape and Stability of Mandibular Arch Form," <i>Am. J. Orthod. Dentofacial. Orthop.</i> , Vol. 92, No. 6, (Dec. 1987), pp. 478-483.	
	CP	FRIEDE <i>et al.</i> , "Accuracy of Cephalometric Prediction in Orthognathic Surgery, Abstract of Papers," <i>J. Dent. Res.</i> , Vol. 70, (1987), pp. 754-760.	

Examiner Signature		Date Considered	1-11-04
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	CQ	GIM-ALLDENT, Deutschland, Das DUX System: Die Technik, 2 pages total.	
	CR	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity, Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery," AAOMS, (Sept 13, 1990), 3 pages total.	
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	CU	HOFFMANN <i>et al.</i> , "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary In English, article in German), Informatbnen, (March 1991), pp. 375-396.	
	CV	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," AAOMS, (1999), p. 96.	
	CW	JCO Interviews, "Craig Andreiko, DDS, MS on the Elan and Orthos Systems," JCO, (Aug. 1994), pp. 459-468.	
	CX	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice," Part 2, JCO, (Dec. 1983), pp. 819-831.	
	CY	JERROLD, "The Problem, Electronic Data Transmission and the Law," AJO-DO, (Apr. 1988), pp. 478-479.	
	CZ	JONES <i>et al.</i> , "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," Br. J. Orthod., Vol. 16, (1989), pp. 85-93.	
	DA	KAMADA <i>et al.</i> , "Case Reports On Tooth Positioners Using LTV Vinyl Silicone Rubber," J. Nihon University School of Dentistry, (1984), 26(1): 11-29.	
	DB	KAMADA <i>et al.</i> , "Construction of Tooth Positioners with LTV Vinyl Silicone Rubber and Some Case Reports," J. Nihon University School of Dentistry, (1982), 24(1):1-27.	
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	DD	KESLING <i>et al.</i> , "The Philosophy of the Tooth Positioning Appliance," Am. J. Orthod. Oral Surg., (1945), 31:297-304.	
	DE	KESLING, "Coordinating the Predetermined Pattern and Tooth Positioner with Conventional Treatment," Am. J. Orthod. Oral Surg., (1946), 32:285-293.	
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	DG	KURODA <i>et al.</i> , "Three-Dimensional Dental Cast Analyzing System Using Laser Scanning," Am. J. Orthod. Dentofac. Orthop., (1996), 110:365-369.	

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	DH	LAURENDEAU <i>et al.</i> , "A Computer-Vision Technique for the Acquisition and Processing of 3-D Profiles of Dental Imprints: An Application in Orthodontics," <i>IEEE Trans. Med. Imaging</i> , Vol. 10, No. 3, (Sept. 1991), pp. 453-461.	
	DI	LEINFELDER <i>et al.</i> , "A New Method for Generating Ceramic Restorations: a CAD-CAM system," <i>J. Am. Dent. Assoc.</i> , Vol. 118, No. 6, (Jun. 1989), pp. 703-707.	
	DJ	MANETTI <i>et al.</i> , "Computer-aided cefalometry and new mechanics in orthodontics," <i>Fortschr. Kieferorthop.</i> , (1983 Oct), 44(5):370-376.	
	DK	MCCANN, "Inside the ADA," <i>J. Am. Dent. Assoc.</i> , Vol. 118, (March 1989), p. 286-294.	
	DL	MCNAMARA <i>et al.</i> , "Invisible Retainers," <i>J. Clin. Orthod.</i> , (August 1985), pp. 570-578.	
	DM	MCNAMARA <i>et al.</i> , "Orthodontic and Orthopedic Treatment in the Mixed Dentition," Needham Press, January 1993. pp.347-353.	
	DN	MOERMANN <i>et al.</i> , "Computer Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress," <i>IADR Abstract 339, J. Dent. Res.</i> , Vol. 66(a), (1987), p. 763.	
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	DP	NAHOUM, "The Vacuum Formed Dental Contour Appliance," <i>N. Y. State Dent. J.</i> , (November 1964), Vol. 30, No. 9, pp. 385-390	
	DQ	NASH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment," <i>Dent. Today</i> , (October 1990), pp. 20, 22-23, 54.	
	DR	NISHIYAMA <i>et al.</i> , "A New Construction of Tooth Repositioner by LTV Vinyl Silicone Rubber," <i>J. Nihon University School of Dentistry</i> , (1977), 19(2):93-102.	
	DS	PINKHAM, "'Foolish' Concept Propels Technology," <i>Dentist</i> , (Jan./Feb. 1989), 3 pages total.	
	DT	PINKHAM, "Inventor's CAD/CAM May Transform Dentistry," <i>Dentist</i> , (Sept. 1990), 3 pages total.	
	DU	PONITZ, "Invisible Retainers," <i>Am J. Orthod.</i> , Vol 59, No. 3, (March 1971), pp. 266-272	
	DV	PROCERA RESEARCH PROJECTS, "PROCERA Research Projects 1993 — Abstract Collection," (1993), pp. 3-28.	
	DW	RAINTREE ESSIX & ARS MATERIALS, INC., "Raintree Essix, Technical Magazine Table of contents and Essix Appliances," < <a href="http://www.essix.com/magazine/default.html">http://www.essix.com/magazine/default.html</a> >, (Aug. 13, 1997), 7 pages.	
	DX	REKOW, "A Review of the Developments in Dental CAD/CAM Systems," (contains references to Japanese efforts and content of the papers of particular interest to the clinician are indicated with a one-line summary of their content in the bibliography), <i>Curr. Opin. Dent.</i> , (1992 Jun), Vol. 2, pp. 25-33.	

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	DY	REKOW, "CAD/CAM in Dentistry: A Historical Perspective and View of the Future," <i>J. Can. Dent. Assoc.</i> , Vol. 58 No. 4, (April 1992), pp. 283, 287-288.	
	DZ	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," <i>J. Prosthet. Dent.</i> , Vol. 58, No. 4, (Oct. 1987), pp. 512-516.	
	EA	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" <i>J. Am. Dent. Assoc.</i> , Vol. 122, (1991), pp. 43-48.	
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Examiner Signature	Date Considered	1-11-00
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<sup>1</sup> EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	10/799,432	
			Filing Date	March 12, 2004	
			First Named Inventor	CHISHTI, MUHAMMAD	
			Art Unit	3732	
			Examiner Name	Manahan, Todd E.	
Sheet	8	of	8	Attorney Docket Number	018563-000550US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	EO	VAN DER LINDEN <i>et al.</i> , "Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J. Dent. Res.</i> , (July-August 1972), 51(4):1100.	
	EP	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," <i>J. Dent. Res.</i> , (July-August 1972), Vol. 51, No. 4, p. 1104.	
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	EV	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>J. Dent. Pract. Adm.</i> , (Jan/March 1987), pp. 2-5.	
	EW	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," <i>J. Dent. Pract. Adm.</i> , (April/June 1987), pp. 50-55.	
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	EZ	YAMAMOTO <i>et al.</i> , "Three-Dimensional Measurement of Dental Cast Profiles and Its Applications to Orthodontics," <i>Annual Int'l Conf. of IEEE Engineering in Medicine and Biology Society</i> , Vol. 12, No. 5, (1990), pp. 2051-2053.	

Examiner Signature	Date Considered	1-11-00
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<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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